

MERCHANT, GOULD, SMITH, EDELL, WELTER & SCHMIDT

United States Patent Application

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: UV ASSISTED GALLIUM NITRIDE GROWTH

The specification of which

- a. ☒ is attached hereto
b. ☐ was filed on _____ as application serial no. _____ and was amended on _____ (if applicable) (in the case of a PCT-filed application) described and claimed in international no. _____ filed _____ and as amended on _____ (if any), which I have reviewed and for which I solicit a United States patent.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56 (attached hereto).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119/365 of any foreign application(s) for patent of inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

- a. ☒ no such applications have been filed.
b. ☐ such applications have been filed as follows:

FOREIGN APPLICATION(S), IF ANY, CLAIMING PRIORITY UNDER 35 USC § 119			
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)
ALL FOREIGN APPLICATION(S), IF ANY, FILED BEFORE THE PRIORITY APPLICATION(S)			
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)

I hereby claim the benefit under Title 35, United States Code, § 120/365 of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. APPLICATION NUMBER	DATE OF FILING (day, month, year)	STATUS (patented, pending, abandoned)

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

U.S. PROVISIONAL APPLICATION NUMBER	DATE OF FILING (Day, Month, Year)

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

79 Adriano, Sarah B.	Reg. No. <u>34,470</u>	Kettelberger, Denise	Reg. No. <u>33,924</u>
Batzli, Brian H.	Reg. No. <u>32,960</u>	Kowalchuk, Alan W.	Reg. No. <u>31,535</u>
Beard, John L.	Reg. No. <u>27,612</u>	Kowalchuk, Katherine M.	Reg. No. <u>36,848</u>
Beck, Robert C.	Reg. No. <u>28,184</u>	Krull, Mark A.	Reg. No. <u>34,205</u>
Bejin, Thomas E.	Reg. No. <u>37,089</u>	Lacy, Paul A.	Reg. No. <u>38,946</u>
Berman, Charles	Reg. No. <u>29,249</u>	Lasky, Michael B.	Reg. No. <u>29,555</u>
Bogucki, Raymond A.	Reg. No. <u>17,426</u>	Lynch, David W.	Reg. No. <u>36,204</u>
Bruess, Steven C.	Reg. No. <u>34,130</u>	Mau, Michael L.	Reg. No. <u>30,087</u>
Byrne, Linda M.	Reg. No. <u>32,404</u>	McDaniel, Karen D.	Reg. No. <u>37,674</u>
Canady, Karen S.	Reg. No. <u>39,927</u>	McDonald, Daniel W.	Reg. No. <u>32,044</u>
Carlson, Alan G.	Reg. No. <u>25,959</u>	McDonald, Wendy M.	Reg. No. <u>32,427</u>
Carter, Charles G.	Reg. No. <u>35,093</u>	McIntyre, Iain A.	Reg. No. <u>40,377</u>
Caspers, Philip P.	Reg. No. <u>33,227</u>	Miller, William D.	Reg. No. <u>37,988</u>
Chiapetta, James R.	Reg. No. <u>39,634</u>	Mueller, Douglas P.	Reg. No. <u>30,300</u>
Clifford, John A.	Reg. No. <u>30,247</u>	Nasiedlak, Tyler L.	Reg. No. <u>40,099</u>
Conrad, Timothy R.	Reg. No. <u>30,164</u>	Nelson, Albin J.	Reg. No. <u>28,650</u>
Cooper, Victor G.	Reg. No. <u>39,641</u>	Pauly, Daniel M.	Reg. No. <u>40,123</u>
Crawford, Robert	Reg. No. <u>32,122</u>	Plunkett, Theodore	Reg. No. <u>37,209</u>
Daignault, Ronald A.	Reg. No. <u>25,968</u>	Pollinger, Steven J.	Reg. No. <u>35,326</u>
Daley, Dennis R.	Reg. No. <u>34,994</u>	Reich, John C.	Reg. No. <u>37,703</u>
Daulton, Julie R.	Reg. No. <u>36,414</u>	Reiland, Earl D.	Reg. No. <u>25,767</u>
Davidson, Ben M.	Reg. No. <u>38,424</u>	Schmaltz, David G.	Reg. No. <u>39,828</u>
Dempster, Shawn B.	Reg. No. <u>34,321</u>	Schmidt, Cecil C.	Reg. No. <u>20,566</u>
DiPietro, Mark J.	Reg. No. <u>28,707</u>	Schuman, Mark D.	Reg. No. <u>31,197</u>
Edell, Robert T.	Reg. No. <u>20,187</u>	Schumann, Michael D.	Reg. No. <u>30,422</u>
Epp Ryan, Sandra	Reg. No. <u>39,667</u>	Sebald, Gregory A.	Reg. No. <u>33,280</u>
Farber, Michael B.	Reg. No. <u>32,612</u>	Sharp, Janice A.	Reg. No. <u>34,051</u>
Funk, Steven R.	Reg. No. <u>37,830</u>	Skoog, Mark T.	Reg. No. <u>40,178</u>
Gabilan, Mary Susan	Reg. No. <u>38,729</u>	Smith, Jerome R.	Reg. No. <u>35,684</u>
Gates, George H.	Reg. No. <u>33,500</u>	Stinebruner, Scott A.	Reg. No. <u>38,323</u>
Golla, Charles E.	Reg. No. <u>26,896</u>	Sumner, John P.	Reg. No. <u>29,114</u>
Gorman, Alan G.	Reg. No. <u>38,472</u>	Sumners, John S.	Reg. No. <u>24,216</u>
Gould, John D.	Reg. No. <u>18,223</u>	Tellekson, David K.	Reg. No. <u>32,314</u>
Gresens, John J.	Reg. No. <u>33,112</u>	Underhill, Albert L.	Reg. No. <u>27,403</u>
Hamre, Curtis B.	Reg. No. <u>29,165</u>	Vandenburgh, J. Derek	Reg. No. <u>32,179</u>
Hassing, Thomas A.	Reg. No. <u>36,159</u>	Welter, Paul A.	Reg. No. <u>20,890</u>
Hillson, Randall A.	Reg. No. <u>31,838</u>	Williams, Douglas J.	Reg. No. <u>27,054</u>
Hollingsworth, Mark A.	Reg. No. <u>38,491</u>	Wood, Gregory B.	Reg. No. <u>28,133</u>
Johnston, Scott W.	Reg. No. <u>39,721</u>	Xu, Min S.	Reg. No. <u>39,536</u>
Kastelic, Joseph M.	Reg. No. <u>37,160</u>		

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Merchant, Gould, Smith, Edell, Welter & Schmidt to the contrary.

Please direct all correspondence in this case to Merchant, Gould, Smith, Edell, Welter & Schmidt at the address indicated below:

Merchant, Gould, Smith, Edell,
Welter & Schmidt
Westwood Gateway II, Suite 400
11150 Santa Monica Blvd.
Los Angeles, CA 90025-3395

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2	Full Name Of Inventor	Family Name Mishra 1-00	First Given Name Umesh	Second Given Name Kumar
0	Residence & Citizenship	City Santa Barbara CA	State or Foreign Country California	Country of Citizenship U.S.A.
1	Post Office Address	Post Office Address 1435 Sycamore Canyon Road	City Santa Barbara	State & Zip Code/Country California 93108/U.S.A.
Signature of Inventor 201:			Date: 11/26/96	
2	Full Name Of Inventor	Family Name DenBaars 2-00	First Given Name Steven	Second Given Name P.
0	Residence & Citizenship	City Goleta CA	State or Foreign Country California	Country of Citizenship U.S.A.
2	Post Office Address	Post Office Address 6626 Marlborough Drive	City Goleta	State & Zip Code/Country California 93117/U.S.A.
Signature of Inventor 202:			Date: 11/22/96	
2	Full Name Of Inventor	Family Name Keller 3-00	First Given Name Stacia	Second Given Name (NMI)
0	Residence & Citizenship	City Goleta CA	State or Foreign Country California	Country of Citizenship Germany
3	Post Office Address	Post Office Address 6251 Momouth Avenue	City Goleta	State & Zip Code/Country California 93117/U.S.A.
Signature of Inventor 203:			Date: 11/26/96	
2	Full Name Of Inventor	Family Name	First Given Name	Second Given Name
0	Residence & Citizenship	City	State or Foreign Country	Country of Citizenship
4	Post Office Address	Post Office Address	City	State & Zip Code/Country
Signature of Inventor 204:			Date:	
2	Full Name Of Inventor	Family Name	First Given Name	Second Given Name
0	Residence & Citizenship	City	State or Foreign Country	Country of Citizenship
5	Post Office Address	Post Office Address	City	State & Zip Code/Country
Signature of Inventor 205:			Date:	

§ 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

(1) prior art cited in search reports of a foreign patent office in a counterpart application, and

(2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

(1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim;

or

(2) It refutes, or is inconsistent with, a position the applicant takes in:

(i) Opposing an argument of unpatentability relied on by the Office, or

(ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

(1) Each inventor named in the application:

(2) Each attorney or agent who prepares or prosecutes the application; and

(3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

Applicant: Umesh K. Mishra, Steven P. DenBaars and Stacia Keller

Serial No.: --

Filed: Herewith

Re: UV ASSISTED GALLIUM NITRIDE GROWTH



**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS
37 C.F.R. 1.9(e) AND 1.27(d)) - NONPROFIT ORGANIZATION**

I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:

NAME OF ORGANIZATION: The Regents of the University of California

ADDRESS OF ORGANIZATION: 300 Lakeside Drive, 22nd Floor
Oakland, California 94612-3550

- a) ☒ UNIVERSITY OR OTHER INSTITUTION OF HIGHER EDUCATION
b) ☐ TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 U.S.C. 501(a) AND 501(c) (3))
c) ☐ NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA -- (NAME OF STATE _____)
(CITATION OF STATUTE _____)
d) ☐ WOULD QUALIFY AS TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 U.S.C. 501(a) AND 501(c) (3)) IF LOCATED IN THE UNITED STATES OF AMERICA
e) ☐ WOULD QUALIFY AS NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA IF LOCATED IN THE UNITED STATES OF AMERICA -- (NAME OF STATE _____)
(CITATION OF STATUTE _____)

I hereby declare that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 C.F.R. 1.9(e) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, in regard to the invention, entitled UV ASSISTED GALLIUM NITRIDE GROWTH by inventors Umesh K. Mishra, Steven P. DenBaars, and Stacia Keller described in

- a) ☒ the specification filed herewith.
b) ☐ provisional application serial no. _____, filed _____.
c) ☐ non-provisional application serial no. _____, filed _____.
d) ☐ patent no. _____, issued _____.

I hereby declare that rights under contract or law have been conveyed to and remain with the nonprofit organization with regard to the above identified invention.

If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 C.F.R. 1.9(c) or by any concern which would not qualify as a small business concern under 37 C.F.R. 1.9(d) or a nonprofit organization under 37 C.F.R. 1.9(e). *NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 C.F.R. 1.27)

NAME N/A

ADDRESS _____

a) ☐ INDIVIDUAL b) ☐ SMALL BUSINESS CONCERN c) ☐ NONPROFIT ORGANIZATION

NAME N/A

ADDRESS _____

a) ☐ INDIVIDUAL b) ☐ SMALL BUSINESS CONCERN c) ☐ NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 C.F.R. 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereof, or any patent to which this verified statement is directed.

NAME Linda S. Stevenson
TITLE Principal Prosecution Analyst
ADDRESS 300 Lakeside Drive, 22nd Floor, Oakland, CA 94612-3550

SIGNATURE *Linda S. Stevenson* DATE November 27, 1996

UC Case No.: 96-179-1